

# Firefly Host Release Notes

**Release 6.0**  
**08 April 2014**  
**Revision 4**

The Firefly Suite is designed to address the need for compelling and robust security for diverse virtualized environments by bringing together three products - Firefly Host Release 6.0, Firefly Perimeter Release 12.1X46-D10, and Junos Space Virtual Director Release 1.0. These release notes accompany Release 6.0 of Firefly Host. They describe supported features and known issues with Firefly Host.

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## Release Notes for Firefly Host

Firefly Host delivers complete virtualization security for multitenant public and private clouds, and clouds that are a hybrid of the two. Firefly Host is built off the vGW product line and replaces it. Firefly Host comprises the following three main components:

- **Firefly Host Dashboard**—Consists of a set of modules used to configure the Firefly Host features for your virtualized environment.
- **Firefly Host VM**—Remains attached to the ESX/ESXi host on which it is installed on and maintains policy and logging information.
- **Firefly Host Module**—All connections are processed and firewall security is enforced in the Firefly Host Module.

To obtain the most current version of Firefly Host technical documentation, see the [Firefly Host Documentation](#) page on the Juniper Networks website.

These release notes include:

- [Supported Features for Firefly Host on page 2](#)
- [Firefly Host Compatibility on page 3](#)
- [Known Issues in Release 6.0 for Firefly Host on page 4](#)
- [Documentation Updates for Firefly Host Release 6.0 on page 6](#)

## Supported Features for Firefly Host

Table 1 on page 2 lists the main features that are supported on Firefly Host Release 6.0.

**Table 1: Features Supported on Firefly Host**

Feature	Description
Stateful virtual firewall enforces policy for group and individual VMs	Granular access control and VM isolation via policy enforcement for groups and individual VMs.
VMsafe implementation delivers breakthrough performance	Certified hypervisor-based security processing for breakthrough performance with more than 10x the throughput of non-VMsafe fast-path virtual firewalls.
VM Introspection gives X-ray view of VMs and OSes	X-ray view of VMs and their installed OSes, applications and services.
VM Image Enforcer ensures compliance with ideal VM configuration	Enforcement of the desired or ideal VM configuration with options for alerting and/or quarantining for VMs whose image deviates.
Virtualization-specific AV protects VM disks and files	On-demand and on-access scanning of VM disks and files with quarantining of infected entities.
Intrusion detection system provides malware detection	Selectable, protocol and application-specific deep-packet inspection of allowed traffic for malware detection.

Table 1: Features Supported on Firefly Host (*continued*)

Feature	Description
Smart Groups automates VM security for new VMs	Automated VM security for newly created or replicated VMs.
Network monitoring sees and monitors inter-VM and intra-VM traffic	Visibility and comprehensive auditing of inter-VM and intra-VM communications and Netflow-style data collection.
Highly scalable central management synchronizes security policies	Synchronization of security policies across vGW management centers for safe, large-scale, multi-tenant virtualization.
IPv6/IPv4 firewall enforcement and management	Greater flexibility and efficiency of traffic protection with the ability to manage the entire vGW infrastructure via IPv4 or IPv6 addresses.
Firefly Host Cloud API and SDK allows customization	Time and resource savings through customization and automation of security controls during VM provisioning.

## Firefly Host Compatibility

Table 2 on page 3 describes the compatible versions of VMware and Firefly Host (Firefly Host Dashboard and Firefly Host VM).

Table 2: Firefly Host Compatibility with VMware Versions

VMware Version	vGW Series and Firefly Host Support
vSphere 4.0 and 4.1 (and all updates)	vGW Series 4.5 and later releases including all versions of vGW 5.5 and Firefly Host 6.0.
vSphere 5.0 (and all updates)	<p>vGW Series 5.0r2 and later releases including all versions of vGW 5.5 and Firefly Host 6.0.</p> <p><b>WARNING:</b> Upgrading to ESXi 5.0 Update 2 prior to updating to vGW Series 5.5R4 installation can cause issues with vGW Security VMs/Host Security VMs associating properly to hosts. This occurs because of the UUID changes made during the upgrade. Issues are related to modifications VMware made to the UUID behavior as noted in their release notes. See PR849657. (<a href="http://www.vmware.com/support/vsphere5/doc/vsp_esxi50_u2_rel_notes.html">http://www.vmware.com/support/vsphere5/doc/vsp_esxi50_u2_rel_notes.html</a>)</p>
vSphere 5.1 (and all updates)	<p>vGW Series 5.0R4 or later including all versions of vGW 5.5 and Firefly Host.</p> <p><b>NOTE:</b> vSphere 5.1 supports only ESXi hosts.</p>

**Table 2: Firefly Host Compatibility with VMware Versions (*continued*)**

VMware Version	vGW Series and Firefly Host Support
vSphere 5.5	Supported.  See Juniper Networks Knowledge Base article - KB 28884 at <a href="http://kb.juniper.net/">http://kb.juniper.net/</a> .

Table 3 on page 4 describes the software compatibility and requirements for Firefly Host.

**Table 3: Firefly Host Software Compatibility and Requirements**

Software	Firefly Host
vSwitches	Firefly Host interoperates with the following types of switches: <ul style="list-style-type: none"> <li>• Standard VMware Virtual Switch</li> <li>• VMware Distributed Virtual Switch (DVS)</li> <li>• Cisco Nexus 1000V device</li> </ul>
Browsers	Firefly Host requires one of the following supported Web browsers: <ul style="list-style-type: none"> <li>• Microsoft Internet Explorer 7, 8, or 9</li> <li>• Mozilla Firefox 3 or later</li> </ul> <p><b>NOTE:</b> Localized (non-English) versions of browsers, such as the Japanese version of IE7, are not fully supported. However most character sets including Japanese should display properly.</p>

### Known Issues in Release 6.0 for Firefly Host

The following problems currently exist in the Juniper Networks Firefly Host components, which include Firefly Host Dashboard, Firefly Host VM, and Firefly Host Endpoint. The identifier after the description is the tracking number in the Juniper Networks Problem Report (PR) tracking system.



**NOTE:** This section lists the known issues for Firefly Host Release 6.0 only. It does not address vGW Series 5.5 issues.

## Firefly Host Dashboard

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**Release Date:** Jan-23-2014; **Build Number:** 6.0.c-5-2

- The license for Firefly Host is not based on a license from entitlement server, but rather from voluntarily entered information.

The Firefly Host product requires a purchased license to activate the proper features, time frames, and license counts. The enforcement of this license is through the standard Juniper Software Advantage program. Contact your Juniper Networks representative for more details on Firefly Host licensing. [PR 930826]

- On the Firefly Host Dashboard, the **Help** icon directs you to the Online Help for vGW Series instead of Firefly Host. [PR 934526]
- In the Apply Policy screen, the policies dialog box now includes the changed rules.  
The Show Policy feature has a new dialog box. [PR 932090]
- A VM can appear under the Secured VM display if it does not contain any vNICs. [PR 920910]
- Applying a policy can still show as not applied when a policy group contains rules that are all disabled as there are no rules to push. [PR 921141]
- The ESX cannot be uninstalled when a CD drive is connected to the center. [PR 948650]
- The Server Message Box (SMB) client cannot be used in Firefly Host; you must remove it or replace it. Change the backup settings if you have the Common Internet File System (CIFS). [PR 938074]
- The groups on *vi.pvlan*, and *vi.pvlan.all* might not get updated when changing dvPortGroup's pvlan. [PR 952013]
- When a VM is a member of an empty policy group (that is, a policy group without rules), you might see VMs as members in the user interface default policy group that do not belong there. [PR 952459]
- IDS signatures that reference other signatures might fail to generate an alert if all of the related signatures are not active. To determine if you are using signatures with dependencies, search on the description of the signature. The results will show all signatures using that description and all of them should be active. [PR 952014]
- The standby SDC cannot communicate with the primary SDC upon upgrade.  
Workaround: Reconfigure the secondary SDC IP address through the SDC Web. [PR 954480]
- Frequent usage of the *check policy status* from the user interface or with the XML Remote Procedure Call (xml rpc) might cause memory issues. [PR 952623]

### Firefly Host VM

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**Release Date:** Jan-23-2014; **Build Number:** 6.0.a-1-2

- Firefly Host syslog information cannot be sent when TCP is used. [PR 746528]
- The Netflow time values are flipped. [PR 841343]
- IPv6 Neighbor Discovery packets are displayed with a double colon (::). [PR 793405]
- Low performance due to On Access Scanning. [PR 936192]

### Firefly Host Endpoint

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**Release Date:** Jan-23-2014; **Build Number:** 6.0.a-1-2

Firefly Host Endpoint auto update does not work.

Workaround: Manually install a new version of the Firefly Host Endpoint software.  
[PR 954853]

## Documentation Updates for Firefly Host Release 6.0

This section lists the errata and changes in Firefly Host Release 6.0 documentation.

### *Firefly Host Getting Started Guide for VMware*

- The topic “Firefly Host Prerequisites and Resource Requirements for the VMware Environment” incorrectly states that “VMware vSphere 5.5 is not currently supported by Firefly Host as VMware no longer supports VMsafe in vSphere 5.5.”

Firefly Host 6.0 supports VMware vSphere 5.5. See Juniper Networks Knowledge Base article – KB 28884 at <http://kb.juniper.net/>.

## Documentation and Release Notes

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For a list of Firefly Host documentation, see [Firefly Host Documentation](#) page on the Juniper Networks website.

If the information in the documentation differs from the information in the latest release notes, follow the *Firefly Host Release Notes*.

To obtain the most current version of all Juniper Networks® technical documentation, see the product documentation page on the Juniper Networks website at <http://www.juniper.net/techpubs/>.

Juniper Networks supports a technical book program to publish books by Juniper Networks engineers and subject matter experts with book publishers around the world. These books go beyond the technical documentation to explore the nuances of network architecture, deployment, and administration using the Junos operating system (Junos OS) and Juniper Networks devices. In addition, the Juniper Networks Technical Library, published in conjunction with O'Reilly Media, explores improving network security, reliability, and availability using Junos OS configuration techniques. All the books are for sale at technical bookstores and book outlets around the world. The current list can be viewed at <http://www.juniper.net/books>.

## Documentation Feedback

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We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can send your comments to [techpubs-comments@juniper.net](mailto:techpubs-comments@juniper.net), or fill out the documentation feedback form at <https://www.juniper.net/cgi-bin/docbugreport/>. If you are using e-mail, be sure to include the following information with your comments:

- Document or topic name
- URL or page number
- Software release version (if applicable)

## Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

## Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <https://www.juniper.net/alerts/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

## Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html>.



## Revision History

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23 January 2014—Revision 1, Firefly Host - Release 6.0.

27 February 2014—Revision 2, Firefly Host - Release 6.0.

18 March 2014—Revision 3, Firefly Host - Release 6.0.

08 April 2014—Revision 4, Firefly Host - Release 6.0

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